

19270 U.S. PTO  
10/697751

**IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE**

**PATENT APPLICATION**

**APPLICANT(S):** Woogeun Rhee  
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I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated below and is addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date of Deposit: October 30, 2003Signature: *V. Benicewski*

**ASSIGNEE  
NAME:** International Business  
Machines Corporation

**ASSIGNEE  
RESIDENCE:** Armonk, New York

**TITLE:** Voltage-Controlled Delay Circuit Using  
Second-Order Phase Interpolation

**COMMISSIONER FOR PATENTS  
P.O. BOX 1450  
ALEXANDRIA, VA 22313-1450**

**SIR:**

Enclosed are the following papers relating to the above-named application for patent:

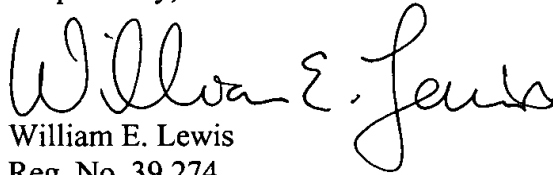
Application - 8 pages of Specification, 3 pages of Claims and 1 page of Abstract  
5 Sheets of informal drawing(s)  
Declaration (unexecuted)

CLAIMS AS FILED				
	NO. FILED	NO. EXTRA	RATE	CALCULATIONS
Total Claims	15-20 =	0	x \$18 =	\$0
Independent Claims	5-3 =	2	x \$86 =	\$172
Multiple Dependent Claim(s), if applicable			\$290 =	\$0
Basic Fee				\$770
TOTAL FEE:				\$942

Please file the application and charge **International Business Machines Corporation Deposit Account No. 50-0510** the amount of \$942, to cover the filing fee. In the event of non-payment or improper payment of a required fee, the Commissioner is authorized to charge or to credit **Deposit Account No. 50-0510** as required to correct the error. Duplicate copies of this letter are enclosed.

Please address all correspondence to: **Ryan, Mason & Lewis, LLP, 90 Forest Avenue, Locust Valley, New York 11560**. Telephone calls should be made to the undersigned attorney at (516) 759-2946.

Respectfully,

A handwritten signature in black ink that reads "William E. Lewis". The signature is written in a cursive, flowing style with a large initial 'W' and a long, sweeping underline.

William E. Lewis

Reg. No. 39,274

Attorney for Applicant(s)

Ryan, Mason & Lewis, LLP

90 Forest Avenue

Locust Valley, New York 11560

Date: October 30, 2003